(A.P) ECET 2016 MECHANICAL ENGINEERING - 201



Rosa,

- A chisel used for cutting steel sheets is usually 1.
 - (1) annealed

- (2) tempered
- (3) hardened & tempered (4) annealed & tempered

- Saw setting is 2.
 - (1) heat treatment of a saw
 - (2) sharpening of saw teeth
 - (3) bending the alternate teeth is opposite directions
 - (4) keeping the saw under load
- In carpentry, the tool used to make a narrow through slot is 3.
 - (2) jack plane (3) cold chisel (4) mortise chisel (1) firmer chisel
- Why is honing operation used 4.
 - (1) to remove the grinding and tool marks left by previous operation
 - (2) to finish holes
 - (3) to harden a surface
 - (4) to provides a very close fit between two contact surfaces
- With which of the following is 'halfnut' concerned 5.
 - (1) locking device

(2) thread cutting on lathe

(3) milling machine

- (4) shaper
- How is the size of a planer specified 6.
 - (1) by the stoke length
 - (2) by number of tools which operate at a time
 - (3) by the size of table

8.

- (4) by the size of the table and height of cross rail
- In a milling machine, the cutting tool is mounted on which of the following
- (3) tool holder (4) arbor (2) column (1) table
- By which of the following is the hardness of a grinding wheel specified
 - (2) brinell hardness number (1) letter or alphabet
 - (3) rockwell hardness number (4) vickerspyramid number

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	9.	A universal divinding head is employed to perform a milling operation by
		(1) compound (2) differential (3) direct (4) plain
	10.	Helical gears can be cut on the following milling machine
		(1) vertical (2) horizontal (3) 'universal (4) multi-spindle
	11.	Which of the following is not fine finishing operation
e - 4		(1) grinding (2) tumbling (3) honing (4) lapping
	12.	Lathe bed is usually made of
		(1) cast iron (2) mild steel (3) high speed steel (4) alloy steel
	13.	Feed drives in CNC milling machines are provided by
		(1) synchronous motors (2) inductive motors
		(3) stepper motors (4) servo motors
*	14.	Metal moulds are used in
		(1) die casting process (2) dry sand moulding
		(3) green sand moulding (4) loam moulding
	15.	The mould is housed in which of the following
		(1) flask (2) drag (3) cope (4) pouring basin
	16.	Which colour is used on the pattern to mark the surface to be machined
		(1) blue (2) red (3) yellow (4) black
	17.	By which of the following casting methods are steel and cast iron pipes cast
		(1) investment casting (2) continuous casting
		(3) die casting (4) true centrifugal casting
	18.	Which of the following is the main constituent of moulding sand
		(1) silica (2) alumina (3) iron oxide (4) clay
	19.	Sprue in casting refers to
. And	-	(1) gate (2) vertical passage (3) riser (4) runner
Carrier and	20.	Roll forging
Constanting of the	And a second	(1) caused a steadily applied pressure instead of impact force
4	and the second s	(2) is used to force the end of a heated bar into a desired shape
		(3) is a forging operation in which two halves of a rotating die open and close rapidly while impacting the end of heated tube or shell
		(4) is forging method for reducing the diameter of a bar and in the process making i longer

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21.	Which of the following process is different from	n the rest of the processes
*	(1) short peening (2) cold extrusion (3) sa	nd blasting (4) drop forging
22.	Large size bolt heads are made by	
	(1) upset forging (2) roll forging (3) tu	mbling (4) swaging
.23.	The important mechanical property for a materia	1 to be successfully rolled or foged is
1 and 2	(1) brittleness (2) ductility (3) el	asticity (3) malleability
24.	Acetylence gas is generated from	
	(1) calcium (2) ca	llcium carbonate
	(3) calcium carbide (4) ca	llcium chloride
25.	Acetylene gas is generated from	opposited on the first of the
	(1) gas welding (2) at	c welding
4	(3) resistance welding (4) T	IG welding
26.	The gases used in Tungsten inert gas welding an	re
	(1) hydrogen and oxygen (2) at	rgon and neon
	(3) helium and neon (4) a	rgon and helium
27.	The included angle in ACME threads is	
	(1) 50° (2) 60° (3) 4	7.5 [°] (4) 29 [°]
28.	The point of contraflexure in beams is the point	t where
	(1) bending moment is zero	
	(2) shear force is zero	
	(3) bending moment changes its sign	
	(4) shear force changes its sign	all souther from the
29.	. The deflection at the free end of cantilever be	eam of length L, moment of inertia I,
· · · · ·	modulus of elasticity E, when subjected to a un	form distributed load of w por mas
and the second	WL^4 (2) WL^4 (3)	$\frac{WL^4}{WL^4}$ (4) $\frac{WL^4}{WL^4}$
	(1) $3E1$ (2) $48EI$ (3)	24EI 8EI
30.	In a beam where shear force changes sign, the	bending moment will be
7.	(1) zero (2) minimum (3) r	naximum (4) negative
31.	. The force which meet at one point and their lin are known as	es of action also lie on the same plane
	(1) coplanar concurrent forces (2) c	coplanar non-concurrnent forces
	(3) like parallel force (4) u	unlike parallel force
	(ECET 2016)	a na
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	32.	If the value of Poisson's ratio is zero, the	en it means
		(1) material is rigid	(2) coplanar non-concurrent forces
		(3) like parallel forces	(4) unlike parallel forces
	33.	When a simply supported rectangular beat the maximum compressive stress develop	am is subjected to transverse downward load, ps to
		(1) neutral axis (2) bottom fiber	(3) top fiber (4) middle fiber
	34.	When a load on the free end of a cantilev	ver beam is increased, failure will occur
		(1) at the free end	(2) at the fixed end
73		(3) in the middle of the beam	(4) at a distance 2L/3 from end
	35.	Which of the following impurity in cast i	iron maks it hard and brittle
	ć .	(1) silocon (2) sulphur	(3) manganese (4) phosphorus
	36.	Which of the following iron exist betwee	en 910°C
		(1) α -iron (2) β -iron	(3) γ-iron (4) δ-iron
	37.	Eutectoid reaction occurs at	
		(1) $600^{\circ}C$ (2) $723^{\circ}C$	(3) $1147^{\circ}C$ (4) $1493^{\circ}C$
	38.	The heat treatment process used for cash	tings is
		(1) carburizing (2) tempering	(3) annealing (4) normalizing
	39.	Babit metal is a	
		(1) lead-based alloy	(2) copper-base alloy
		(3) tin-base alloy	(4) cadmium-base alloy
	40.	Pitch point is the point on the eam pitch	curve having the
		(1) zero pressure angle	(2) minimum pressure angle
		(3) there is no such criterion	(4) maximum pressure angle
	41.	The efficiency of the screw is given by	
	all .	(1) $\tan \phi/\tan \alpha$	(2) $\tan \phi/(\tan \phi - \tan \alpha)$
grand .		(3) $\tan \alpha / (\tan \varphi + \tan \alpha)$	(4) $(\tan \varphi - \tan \alpha) / \tan \alpha$
	42.	Shear stress induced in a closed-coiled h	elical spring is
-		(1) $\frac{8FD}{\pi d^3}$ (2) $\frac{4FD}{\pi d^3}$	(3) $\frac{32FD}{\pi d^3}$ (4) $\frac{\pi d^3}{8FD}$
	43.	The angle of contact of a flat-belt should	l not be less than
		(1) 100^0 (2) 155^0	(3) 140° (4) 165°

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44.	In a falt-belt drive, the maximum va	lue of tension is					
	(1) T_{e} (2) $2T_{c}$	(3) $3T_c$ (4) $4T_c$					
45.	Lewis equation is gears is used to f	ind the					
	(1) tensile stress (2) fatigue str	ess (3) contact stress (4) bending stress					
46.	Two shafts A and B are the same ler three times the diameter of shaft B,	ngth and material. If the diameter of the shaft A is the ratio of torsional stiffness of shafts A and B is					
	(1) 3 (2) 9	(3) 27 (4) 81					
47.	The ratio of width of a rectangular is fitted is	key to the diameter of the shaft on which the key					
	(1) 1/4 (2) 1/2	(3) 1/8 (4) 4					
48.	The hoop stress in rim of fly wheel	is					
	(1) ρv (2) ρv^2	(3) $\rho v^2/r$ (4) ρ/v^2					
49.	The crest diameter of a screw threa	d is same as					
	(1) major diameter (2) minor diam	neter (3) pitch diameter (4) core diameter					
50.	If d is the normal diameter of a bolt for making a fluid tight joint as fo relation (1) 1024 (2) 124d	in mm, then the initial tension in kg in a bolt used r a steam engine cover joint is calculated by the (3) 168d (4) 151d					
51	(1) 1024 (2) 1244 The equation $(\mathbf{P} + a/a^2) (y - \mathbf{h}) = \mathbf{P}'$	Tis					
51.	(1) perfect and equation $(1 + a/v)(v = 0)$	(2) maxivell's equation					
	(1) perfect gas equation	(4) kinetic theory of gases					
50	(3) valuar waars equation	he enthalpy of vanourization is expressed in					
52.	(1) maxwell'adauation	(2) gas equation					
	(1) maxwell's equation	(4) clausius clanevron equation					
52	Steichometric ratio is	(+) endeside endpegree equation					
55.	(1) the ratio of air to fuel for maxi	mum efficiency					
And a second	(1) the ratio of air to fuel to ensure	e incomplete combustion					
ett.	(3) chemically correct air fuel ratio by weight						
	(4) air fuel ratio with air in excess of theoretical requirement						
54.	A cycle consisting of two reversible adiabatics and two constant pressure processes is known as						
	(1) otto cycle	(2) atkinson's cycle					

 55. In multi stage reciprocating compressor, the isothermal compression is achieved by (1) employing inter-cooler (2) running the compressor at high speeds (3) insulating the cylinder (4) reducing the suction pressure 56. Reheating in gas turbine results in (1) heavy increase in thermal efficiency (2) increase in work ratio (3) decrease in work ratio (4) decrease in work ratio (3) decrease in work ratio (4) decrease in work ratio (5) decrease in work ratio (4) decrease in turbine exit temperature 57. Intensive property of a system is one whose value (1) depends on mass of the system (2) does not depend on mass of the system (3) depends on temperature (4) does not depend on temperature 58. The efficiency of diesel cycle with decrease in curoff (1) decreases (2) first increases and then decreases (3) remain unaffected (4) increases 59. In jet engines, the compression ratio (1) varies as square of speed (2) varies as cube of speed (3) varies as square of speed (4) remains constant 60. Optimum intermediate pressure in two stage compressor is (1) average of suction and delivery pressure (2) geometric mean of suction and delivery pressures (3) half of suction pressure (4) double of delivery pressure 	•
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 (2) geometric mean of suction and delivery pressures (3) half of suction pressure (4) double of delivery pressure 	e
 (3) half of suction pressure (4) double of delivery pressure 	
(4) double of delivery pressure	
	٠
61. The work ratio of a gas turbine may be improved by District and 332/05152332	
(1) increasing the compression work \$385352552/ \$143032352	
(2) decreasing the turbine work	
(3) decreasing the compression work	
(4) decreasing both compression and turbine work	
62. The C.O.P of a refrigerator working on a reversed carnot cycle is .	
T_1 $T_1 - T_2$ $T_1 - T_2$	
(1) $\frac{1}{T_1 - T_2}$ (2) $\frac{1}{T_1 - T_2}$ (3) $\frac{1}{T_1}$ (4) $\frac{1}{T_2}$	

Where T_1 and T_2 are higher and lower opearating temperatures in the cycle

The property of a liquid which offers resistance of the moving of one layer of liquid 63. over another adjacent layer of liquid, is called

- (2) compressibility (1) surface tension
- (4) viscosity (3) capillarity

(ECET 2016)

(A.P) ECET 2016 MECHANICAL ENGINEERING 207 The absolute pressure is equal to 64. (1) gauge pressure + atmospheric pressure (2) gauge pressure - atmospheric pressure (3) atmospheric pressure - gauge pressure (4) gauge pressure - vacuum pressure The velocity of the liquid flowing through the divergent portion of a venturimeter 65. (2) increases (1) remains constant (4) depends upon mass of liquid (3) decreáses A jet of water is striking at the centre of a curved vane moving with a uniform velocity 66. in the direction of jet. Forthe maximum efficiency, the vane velocity is of the jet velocity (4) three-fourth (2) one-third (3) two-third (1) one-half An impulse turbine is used for 67. (2) low head of water, (1) high head of water (3) medium head of water (4) high discharge In a centrifugal pump, the regulating value is provided on the 68. (3) delivery pipe (4) impeller (2) suction pipe (1) casing In a reciprocating pump, air vessels are used to 69. (2) reduce suction head (1) smoothen the flow (4) reduce suction head (3) increase delivery head The mercury does not wet the glass. This is due to property of the liquid known as 70. (2) adhesion (3) viscosity (4) surface tension (1) cohesion Slip of reciprocating pump is negative when 71. (1) suction pipe is long and delivery pipe is short and the pump is running at high speeds (2) delivery pipe is long and pump is running at high speeds (3) suction pipe is short and delivery pipe is long and the pump is running at low speeds (4) suction pipe is short and pump is running at low speeds In a throttling process (1) steam temperature remains constant (2) steam pressure remains constant (4) steam entropy remains constant (3) steam enthalpy remains constant Lancashire boiler is 73. (2) forced circulation type (1) natural circulation type (3) horizontal water tube type (4) external fired type (ECET 2016) and a star being strength and the star was a

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	74.	Which of the boilers is best suited for fluctuating demands
		(1) bobcock and wilcox (2) locomotive
		(3) lancashire (4) cochran
	75.	Rateau turbine is
		(1) velocity compounded turbine
		(2) pressure compounded reaction turbine
		(3) pressure-velocity compounded turbine
		(4) pressure compounded impulse turbine 88050000
	76.	Dryness fraction of steam coming out of last stage of turbine is practically limited to
		(1) 0.76 (2) 0.88 (3) 0.24 (4) 0.12
	77.	A reaction turbine stage has angles α , β , γ and nozzle angle, inlet blade and outlet blade angle respectively. The expression for maximum efficiency of the turbine is given by
		(1) $2\cos^2 \beta/(1 + \cos^2 \beta)$ (2) $2\cos^2 \gamma/(1 + \cos^2 \gamma)$
		(3) $2\cos^2 \alpha/(1 + \cos^2 \alpha)$ (4) $\cos (\alpha + \beta)/\cos^2 \gamma$
	78.	Nozzle is said to be choked when
		(1) flow through is zero
		(2) match number of the flow is less than one
		(3) flow is maximum corresponding to the critical exit pressure
		(4) flow is minimum corresponding to the critical exit pressure
	79.	Nozzle efficiency defined as
		(1) the ratio is isentropic heat drop to useful heat drop
		(2) the ratio of useful heat drop to isentropic heat drop
		(3) the ratio of work done to enthalpy drop
		(4) the ratio of enthalpy drop to work done
	80.	In a refrigeration cycle the heat is rejected by refrigerant at
		(1) condenser (2) evaporator (3) compressor (4) expansion value
	81.	The material of pipelines for system using freon as refrigerant should be
12		(1) aluminum (2) copper (3) steel (4) brass
	82.	What is the effect of the presence of frost-on the cooling coils of the evaporator refrigeration system
	and the second	(1) it reduces the life of cooling coils
		(2) it increases the compressor pressure
		(3) it makes the compressor run for comparatively short runs
		(4) it acts as the insulator and decreases the heat transfer rate
	9962 N.S.	(ECET 2016)

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83.	Removal of non-condensable gasses from	om refrigeration system is called
	(1) aeration (2) drying	(3) rectification (4) purging
84.	Gnatt chart provides information about	1
	(1) material handling	(2) utilization of man power
	(3) production schedule	(4) worker schedule
85.	In inventory control, the Economic ord	ler quantity is
	(1) optimum lot size order	(2) highest quantity ordered
	(3) minimum quantity ordered	(4) lowest priced order
86.	Motion study involves the analysis of	in an and the second states of the second states of
le sé	(1) layout of work place	(2) action of operators
	(3) movement of tools	(4) movement of materials
87.	If a worker gets a daily wage of Rs. X daily earning can be	, then according to Rowan plan, his maximur
	(1) 1.33X (2) 1.5X	(3) 1.75X (4) 2X
88.	Standardised normal distribution is a g	ood approximation to
	(1) binominal distribution for large sar	nple size
	(2) exponential distribution	
	(3) poisson distribution	
	(4) chi-square distribution	
89.	Which of the following methods can be new product	e used for fore-casting the sales potential of
	(1) time series analysis	(2) executive opinion method
	(3) sales force composite method	(4) direct survey method
90.	Sinking fund factor for n years, where	r is the rate of interest is
	(4) - [(1 + r)" - 1]/r	(2) $r/[(1 + r)'' - 1]$
	(3) $r/(1 + r)$ "	(4) $(r-1) / (1 + r)^n$
91.	Which one of the following steps would	d lead to interchangeability
	(1) process planning	(2) operator planning
	(3) quality control	(4) product design
92.	Product layout is employed for	in the second
	(1) batch production	(2) effective utilisation of machine
		(A) i i and i and i and

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	93.	Depreciation of machines is categorized	by
		(1) direct expenses	(2) indirect expenses
		(3) receipts	(4) administrative expenses
	94.	What is hotchkiss drive	and the second state of th
		(1) it transmits drive gearbox to propell	ler shaft
		(2) it transmits drive from clutch-box t	o gearbox
2		(3) it transmits drive from axle to whee	4
		(4) it transmits drive to chassis from re	ar wheel
	95.	The clutch is located between the trans	mission and the
		(1) engine (2) rear axle	(3) propeller shaft (4) differential
-	96.	Clutch facings are usually attached to th	e plate by
		(1) steel rivets	(2) brass rivets
		(3) aluminium screws	(4) steel screws
	97.	In order to implement gear changes in t is used	the gear unit of an automatic transmission, a
		(1) synchronizer	(2) planetary gear
		(3) magnetic clutch	(4) hydraulic multi plate clutch
	98.	The main function of a master cylinder	is to
		(1) adjust the extent of brake pedal free	play
		(2) boost the force applied to brake ped	al
		(3) convert brake pedal force into hydr	autic pressure
		(4) convert that all the wheel brakes a pressure	are supplied with the same amount of fluid
	99.	Vapour lock in diesel engine is	and a surprised of the second second
		(1) ceasing of supply of diesel to inject	or
	E.	(2) blocking of injector nozzle due to in	npurities
and division of the second sec	and a second	(3) blocking of carburettor jets	
y di di x gi i si si		(4) leakage of diesel in supply line	the second second of the second
	100.	In automobiles, hooke's joint is used bet	tween
		(1) flywheel and clutch	(2) clutch and gearbox
		(3) gearbox and differential	(4) differential and wheel axle
			the second s

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